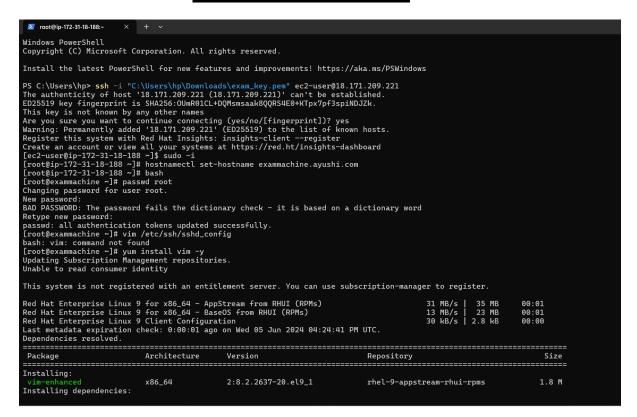
EXAM MACHINE





```
To modify the system-wide sshd configuration, create a *.conf file under /etc/ssh/sshd.config.d/ which will be automatically included below nclude /etc/ssh/sshd_config.d/*.conf
PasswordAuthentication yes
PermitRootLogin yes
#PermitEmptyPasswords no
```

```
[root@exammachine ~]# systemctl enable --now firewalld
[root@exammachine ~]# sudo firewall-cmd --permanent --add-port=2222/tcp
success
[root@exammachine ~]# sudo firewall-cmd --reload
success
[root@exammachine ~]# systemctl enable --now sshd
[root@exammachine ~]# systemctl status sshd
sshd.service - OpenSSH server daemon
      Loaded: loaded (/usr/lib/systemd/system/sshd.service; enabled; preset: enabled)
      Active: active (running) since Wed 2024-06-05 16:27:16 UTC; 26s ago
        Docs: man:sshd(8)
                man:sshd_config(5)
    Main PID: 14852 (sshd)
      Tasks: 1 (limit: 4329)
Memory: 1.4M
         CPU: 13ms
      CGroup: /system.slice/sshd.service
L14852 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
Jun 05 16:27:16 exammachine.ayushi.com systemd[1]: Starting OpenSSH server daemon...
Jun 05 16:27:16 exammachine.ayushi.com sshd[14852]: Server listening on 0.0.0.0 port 2222.
Jun 05 16:27:16 exammachine.ayushi.com sshd[14852]: Server listening on :: port 2222.
Jun 05 16:27:16 exammachine.ayushi.com systemd[1]: Started OpenSSH server daemon.
```

```
[root@exammachine ~]# useradd virat
[root@exammachine ~]# useradd rohit
[root@exammachine ~]# useradd dhoni
[root@exammachine ~]# useradd shami
[root@exammachine ~]# useradd pandey
[root@exammachine ~]# passwd virat
Changing password for user virat.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password: passwd: all authentication tokens updated successfully.
[root@exammachine ~]# passwd rohit
Changing password for user rohit.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[root@exammachine ~]# passwd dhoni
Changing password for user dhoni.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password: passwd: all authentication tokens updated successfully.
[root@exammachine ~]# passwd shami
Changing password for user shami.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[root@exammachine ~]# passwd pandey
Changing password for user pandey.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
```

```
[root@exammachine ~]# usermod -s /sbin/nologin dhoni
[root@exammachine ~]# usermod -aG India virat
usermod: group 'India' does not exist
[root@exammachine ~]# groupadd India
[root@exammachine ~]# usermod -aG India virat
[root@exammachine ~]# usermod -aG India rohit
[root@exammachine ~]# groupadd Bharat
[root@exammachine ~]# usermod -aG Bharat shami
[root@exammachine ~]# usermod -aG Bharat dhoni
[root@exammachine ~]# groupadd team
[root@exammachine ~]# usermod -aG team pandey
```

[root@exammachine ~]# vim /etc/ssh/sshd_config

```
# and KbdInteractiveAuthentication to 'no'.

# WARNING: 'UsePAM no' is not supported in RHEL and may cause several

# problems.

# UsePAM no

#AllowAgentForwarding yes
#AllowTcpForwarding yes
#AllowTcpForwarding no
#XIIIsopPorts no
#XIIIsopPorts no
#XIIIsopPorts no
#XIIIsopPorts no
#XIIIsopPorts no
#XIIIsopPorts no
#PermitTY yes
#PrintMotd yes
#PrintMotd yes
#PrintLastLog yes
#TCPMeepAlive yes
#PermitUseEnvironment no
#Compression delayed
#ClientAliveInterval 0
#ClientAliveInterval 0
#ClientAliveTouthMax 3
#UseDNS no
#PidFile /var/run/sshd.pid
#MaxStartups 10:30:100
#PermitTunnel no
#ChrootDirectory none
#VersionAddendum none

# no default banner path
#Banner none
# override default of no subsystems
#Subsystem sftp /usr/libexec/openssh/sftp-server

# Example of overriding settings on a per-user basis
##Atch User anoncvs
# XIIForwarding no
# AllowTcpForwarding no
# AllowTcpForwarding no
# ForceCommand cvs server
PasswordAuthentication yes
PennyGroups team
```

[root@exammachine ~]# systemctl restart sshd

[root@exammachine ~]# chage -E 2023-12-25 shami

[root@exammachine ~]# vim /etc/login.defs

```
# Enables userdel(8) to remove user groups if no members exist.

# Enables userdel(8) to remove user groups if no members exist.

# USERGROUPS_ENAB yes

# If set to a non-zero number, the shadow utilities will make sure that # groups never have more than this number of users on one line.

# This permits to support split groups (groups split into multiple lines, with the same group ID, to avoid limitation of the line length in the # group file).

# 0 is the default value and disables this feature.

# # If useradd(8) should create home directories for users by default (non # system users only).

# This option is overridden with the -M or -m flags on the useradd(8) command-line.

# CREATE_HOME yes

# Force use shadow, even if shadow passwd & shadow group files are # missing.

# # FORCE_SHADOW yes

# Select the HMAC cryptography algorithm.

# Used in pam_timestamp module to calculate the keyed-hash message # authentication code.

# Note: It is recommended to check hmac(3) to see the possible algorithms # that are available in your system.

# HMAX_CRYPTO_ALGO SHAB12

PASS_MAX_DAYS 365
```

[root@exammachine ~]# vim /etc/default/useradd

```
# useradd defaults file
GROUP=100
HOME=/home
INACTIVE=-1
EXPIRE=
SHELL=/bin/bash
SKEL=/etc/skel
CREATE_MAIL_SPOOL=no
```

```
[root@exammachine ~]# mkdir game
[root@exammachine ~]# mkdir cricket
[root@exammachine ~]# mkdir movies
[root@exammachine ~]# chown virat:India game
[root@exammachine ~]# chmod 770 game
[root@exammachine ~]# chmod g+s game
```

```
[root@exammachine ~]# echo "%wheel ALL=(ALL) NOPASSWD: /bin/systemctl" | sudo tee /etc/sudoers.d/systemctl %wheel ALL=(ALL) NOPASSWD: /bin/systemctl [root@exammachine ~]# echo "%users ALL=(ALL) NOPASSWD: /bin/systemctl" | sudo tee -a /etc/sudoers.d/systemctl %users ALL=(ALL) NOPASSWD: /bin/systemctl
```

[root@exammachine ~]# echo "virat ALL=(ALL) NOPASSWD: ALL, \!/usr/sbin/useradd, \!/usr/sbin/usermod, \!/usr/sbin/userdel" | sudo tee /etc/sudoers.d/virat_su ddo virat ALL=(ALL) NOPASSWD: ALL, \!/usr/sbin/useradd, \!/usr/sbin/usermod, \!/usr/sbin/userdel

[root@exammachine ~]# echo '%Bharat ALL=(ALL) NOPASSWD: ALL' | sudo tee /etc/sudoers.d/bharat_sudo %Bharat ALL=(ALL) NOPASSWD: ALL

```
[root@exammachine ~]# chmod 0440 /etc/sudoers.d/bharat_sudo
[root@exammachine ~]# chmod 0440 /etc/sudoers.d/systemctl
[root@exammachine ~]# chmod 0440 /etc/sudoers.d/virat_sudo
[root@exammachine ~]# visudo -c
/etc/sudoers: parsed OK
/etc/sudoers.d/90-cloud-init-users: parsed OK
/etc/sudoers.d/bharat_sudo: parsed OK
/etc/sudoers.d/systemctl: parsed OK
/etc/sudoers.d/virat_sudo: parsed OK
```

[root@exammachine ~]# ls -ld game
drwxrws---. 2 virat India 6 Jun 5 17:04 game
[root@exammachine ~]# ls -ld cricket
drwxr-xr-x. 2 root root 6 Jun 5 17:04 cricket
[root@exammachine ~]# ls -ld movies
drwxr-xr-x. 2 root root 6 Jun 5 17:05 movies

[root@exammachine ~]# sudo mkdir -p /usr/configuration

[root@exammachine ~]# sudo tar -xzvf /root/movies/backup/config_backup.tar.gz -C /usr/configuration

```
[root@exammachine ~]# sudo touch /var/log/pressure
[root@exammachine ~]# echo "auth.* /var/log/pressure" | sudo tee -a /etc/rsyslog.d/50-default.conf
auth.* /var/log/pressure
[root@exammachine ~]# sudo systemctl restart rsyslog
```

```
[root@exammachine ~]# lsblk
        MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
        202:0 0
                    10G 0 disk
xvda
  -xvda1 202:1
                0
                     1M
                         0 part
  -xvda2 202:2
                          0 part /boot/efi
0 part /boot
                    200M
                0
 -xvda3 202:3
                 0
                   600M
Lxvda4 202:4
                 0 9.2G
                          0 part /
                 0
xvdb
        202:16
                     2G 0 disk
[root@exammachine ~]# fdisk /dev/xvdb
Welcome to fdisk (util-linux 2.37.4).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Device does not contain a recognized partition table.
Created a new DOS disklabel with disk identifier 0x785fc781.
Command (m for help): g
Created a new GPT disklabel (GUID: 2FB2021E-293D-F340-947C-FCB5FC11D3E2).
```

```
root@exammachine:~
Command (m for help): n
Partition number (1-128, default 1): 1
First sector (2048-4194270, default 2048):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (2048-4194270, default 4194270): +500M
Created a new partition 1 of type 'Linux filesystem' and of size 500 MiB.
Command (m for help): n
Partition number (2-128, default 2):
First sector (1026048-4194270, default 1026048):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (1026048-4194270, default 4194270): +250M
Created a new partition 2 of type 'Linux filesystem' and of size 250 MiB.
Command (m for help): n
Partition number (3-128, default 3):
First sector (1538048-4194270, default 1538048):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (1538048-4194270, default 4194270): +250M
Created a new partition 3 of type 'Linux filesystem' and of size 250 MiB.
Command (m for help): n
Partition number (4-128, default 4):
First sector (2050048-4194270, default 2050048):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (2050048-4194270, default 4194270): +400M
Created a new partition 4 of type 'Linux filesystem' and of size 400 MiB.
Command (m for help): n
Partition number (5-128, default 5):
First sector (2869248-4194270, default 2869248):
 Last sector, +/-sectors or +/-size{K,M,G,T,P} (2869248-4194270, default 4194270): +400M
Created a new partition 5 of type 'Linux filesystem' and of size 400 MiB.
Command (m for help): n
Partition number (6-128, default 6):
First sector (3688448-4194270, default 3688448):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (3688448-4194270, default 4194270): +200M
 Created a new partition 6 of type 'Linux filesystem' and of size 200 MiB.
Command (m for help): p
Disk /dev/xvdb: 2 GiB, 2147483648 bytes, 4194304 sectors Units: sectors of 1 \star 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: 2FB2021E-293D-F340-947C-FCB5FC11D3E2

        Device
        Start
        End Sectors
        Size Type

        /dev/xvdb1
        2048 1026047 1024000
        500M Linux

        /dev/xvdb2 1026048 1538047 512000
        250M Linux

                                                         500M Linux filesystem
                                                          250M Linux filesystem
                                                          250M Linux filesystem
/dev/xvdb3 1538048 2050047 512000
/dev/xvdb4 2050048 2869247 819200
/dev/xvdb5 2869248 3688447 819200
                                                         400M Linux filesystem
                                                         400M Linux filesystem
/dev/xvdb6 3688448 4098047 409600
                                                         200M Linux filesystem
```

Command (m for help): w The partition table has been altered. Calling ioctl() to re-read partition table. Syncing disks.

```
[root@exammachine ~]# yum install -y lvm2
Updating Subscription Management repositories.
Unable to read consumer identity
 This system is not registered with an entitlement server. You can use subscription-manager to register.
Red Hat Enterprise Linux 9 for x86_64 - AppStream from RHUI (RPMs)
Red Hat Enterprise Linux 9 for x86_64 - BaseOS from RHUI (RPMs)
Red Hat Enterprise Linux 9 Client Configuration
Dependencies resolved.
                                                                                                                                                                                                                                                                                                                   Architecture
                                                                                                                                                                                                                                                                           Repository
 Package
                                                                                                                                                                                Version
                                                                                                                                                                                                                                                                                                                                                                                   Size
Installing:
                                                                                                                                                                                                                                                                                                                                                                                 1.5 M
                                                                                                                     x86_64
                                                                                                                                                                               9:2.03.23-2.el9
                                                                                                                                                                                                                                                                           rhel-9-baseos-rhui-rpms
 Upgrading:
                                                                                                                     x86_64
x86_64
                                                                                                                                                                                                                                                                           rhel-9-baseos-rhui-rpms
rhel-9-baseos-rhui-rpms
 device-mapper
device-mapper-libs
Installing dependencies:
                                                                                                                    x86_64
x86_64
x86_64
x86_64
x86_64
                                                                                                                                                                               9:1.02.197-2.el9
9:1.02.197-2.el9
1.0.9-3.el9_4
0.3.111-13.el9
9:2.03.23-2.el9
                                                                                                                                                                                                                                                                          rhel-9-baseos-rhui-rpms
rhel-9-baseos-rhui-rpms
rhel-9-baseos-rhui-rpms
rhel-9-baseos-rhui-rpms
rhel-9-baseos-rhui-rpms
                                                                                                                                                                                                                                                                                                                                                                                36 k
34 k
1.0 M
26 k
1.0 M
 Transaction Summary
Install 6 Packages
Upgrade 2 Packages
Total download size: 3.9 M
Downloading Packages:
(1/8): libaio-0.3.111-13.el9.x86_64.rpm
(2/8): device-mapper-event-libs-1.02.197-2.el9.x86_64.rpm
(3/8): device-mapper-event-1.02.197-2.el9.x86_64.rpm
(4/8): device-mapper-persistent-data-1.0.9-3.el9_4.x86_64.rpm
(5/8): lvm2-2.03.23-2.el9.x86_64.rpm
(6/8): device-mapper-1.02.197-2.el9.x86_64.rpm
(7/8): lvm2-libs-2.03.23-2.el9.x86_64.rpm
(8/8): device-mapper-libs-1.02.197-2.el9.x86_64.rpm
                                                                                                                                                                                                                                                                                                                 412 kB/s |

496 kB/s |

298 kB/s |

11 MB/s |

15 MB/s |

5.1 MB/s |

7.6 MB/s |

2.2 MB/s |
                                                                                                                                                                                                                                                                                                                                        26 kB
34 kB
36 kB
1.0 MB
1.5 MB
115 kB
110 MB
180 kB
                                                                                                                                                                                                                                                                                                                                                                      00:00
00:00
00:00
00:00
00:00
00:00
```

```
Complete!

Lroot@exammachine -] # pycreate /dev/xvdb2 /dev/xvdb3 /dev/xvdb4

Physical volume */dev/xvdb2* successfully created.

Physical volume */dev/xvdb2* successfully created.

Physical volume */dev/xvdb2* successfully created.

Creating devices file /cet/t/wideviscessfully created.

Creating devices file /cet/t/wideviscessfully created.

Lroot@exammachine -] # sycreate VG /dev/xvdb3

Volume group "WG1* successfully created |

Lroot@exammachine -] # sycreate VG /dev/xvdb3

Volume group "WG1* successfully extended |

Lroot@exammachine -] # sycreate - SM VG /dev/xvdb3

A volume group "WG1* successfully extended |

Lroot@exammachine -] # sycreate - SM VG /dev/xvdb3

A volume group "WG1* successfully extended |

Lroot@exammachine -] # sycreate - SM VG /dev/xvdb3

A volume group "WG1* successfully extended |

Lroot@exammachine -] # sycreate - SM VG /dev/xvdb3

A volume group "WG1* successfully extended |

Lroot@exammachine -] # sycreate - SM VG /dev/xvdb3

A volume group "WG1* successfully extended |

Lroot@exammachine -] # sycreate - SM VG /dev/xvdb3

A volume group "WG1* successfully extended |

Lroot@exammachine -] # sycreate - SM VG /dev/xvdb3

A volume group "WG1* successfully extended |

Lroot@exammachine -] # sycreate - SM VG /dev/xvdb3

A volume group "WG1* successfully extended |

Lroot@exammachine -] # sycreate - SM VG /dev/xvdb3

A volume group "WG1* successfully extended |

Lroot@exammachine -] # sycreate - SM VG /dev/xvdb3

Lroot@exammachine -] # sycreate - SM VG /dev/xdb4

Lroot@exammachine - SM VG
```

```
Superblock backups stored on blocks:

8183, 24877, 40861, 87348, 73729

Allocating group tables: done

treating journal (1896 blocks): done

Writing superblocks and filesystem accounting information: done

[rootBexammachine ~]# midsir ~p /test

[rootBexammachine ~]# subsect damed deads

[rootBe
```

```
reflink=1
                                                 bigtime=1 inobtcount=1 nrext64=0
                                                 blocks=102400, imaxpct=25
data
         =
                                   bsize=4096
                                   sunit=0
                                                 swidth=0 blks
         =
                                                 ascii-ci=0, ftype=1
blocks=1368, version=2
sunit=0 blks, lazy-count=1
naming
                                   bsize=4096
         =version 2
         =internal log
                                   bsize=4096
log
                                   sectsz=512
realtime =none
                                   extsz=4096
                                                 blocks=0, rtextents=0
[root@exammachine ~]# lsblk
            MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
xvda
            202:0
                     0
                          10G
                              0 disk
 -xvda1
            202:1
                      0
                          1M
                               0 part
  -xvda2
            202:2
                      0
                         200M
                               0 part /boot/efi
                      0 600M
 -xvda3
            202:3
                              0 part /boot
  xvda4
            202:4
                      0
                         9.2G
                               0 part /
xvdb
            202:16
                      0
                          2G
                               0 disk
 -xvdb1
             202:17
                      0
                         500M
                               0 part [SWAP]
                         250M
  xvdb2
             202:18
                               0 part
                      0
  └─VG1-LV1 253:0
                         400M 0 lvm /prod
                      0
  -xvdb3
            202:19
                         250M 0 part
                      0
  -xvdb4
            202:20
                      0
                         400M 0 part
   -VG1-LV1 253:0
                         400M
                               0 lvm /prod
                      0
  LVG1-LV2 253:1
                               0 lvm
                                       /test
                      0
                         152M
  xvdb5
             202:21
                      0
                         400M
                               0 part
  xvdb6
            202:22
                         200M
                      0
                               0 part
```

DNS SERVER

```
[root@dnsserver ~]# yum install bind bind-utils vim httpd -y
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered with an entitlement server. You can use subscription-manager to register.
Red Hat Enterprise Linux 9 for x86_64 - AppStream from RHUI (RPMs)
Red Hat Enterprise Linux 9 for x86_64 - BaseOS from RHUI (RPMs)
Red Hat Enterprise Linux 9 Client Configuration
Dependencies resolved.
                                                                                                                                                                                                                                                                                                                                                                                                    48 MB/s | 35 MB
47 MB/s | 23 MB
30 kB/s | 2.8 kB
 Installing
                                                                                                                     x86_64
x86_64
x86_64
x86_64
                                                                                                                                                                                                   32:9.16.23-18.el9_4.1
32:9.16.23-18.el9_4.1
2.4.57-8.el9
2:8.2.2637-20.el9_1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   507 k
212 k
52 k
1.8 M
                                                                                                                                                                                                  2:8.2.2637-20.el9_1
1.7.0-12.el9_3
1.6.1-23.el9
1.6.1-23.el9
2.9.16.23-18.el9_4.1
32:9.16.23-18.el9_4.1
32:9.16.23-18.el9_4.1
32:9.16.23-18.el9_4.1
32:9.16.23-18.el9_4.1
32:9.16.23-18.el9_4.1
32:9.16.23-18.el9_4.1
32:9.16.23-18.el9
1.24.57-8.el9
2.4.57-8.el9
2.4.57-8.el9
2.1.49-5.el9
1.1.42.0-1.el9
1.3.3-13.el9
3.29.16.23-18.el9_4.1
3.11-14.el9
90.4-2.el9
2:8.2.2637-20.el9_1
2:8.2.2637-20.el9_1
 Installing dependencies:
                                                                                                                    x86_64
x86_64
x86_64
noarch
x86_64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  126 k
97 k
14 k
49 k
1.2 M
14 k
30 k
22 k
1.5 k
87 k
153 k
37 k
37 k
111 k
111 k
7.0 M
                                                                                                                     noarch
x86_64
x86_64
x86_64
x86_64
x86_64
noarch
x86_64
noarch
noarch
x86_64
vim-filesystem
Installing weak dependencies:
                                                                                                                                                                                                                                                                                                                                      rhel-9-appstream-rhui-rpms
rhel-9-appstream-rhui-rpms
                                                                                                                                                                                                   1.6.1-23.el9
32:9.16.23-18.el9_4.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17 k
122 k
```

```
[root@dnsserver named]# chown named:named /var/named/pubip.txt
[root@dnsserver named]# chown 644 /var/named/pubip.txt
[root@dnsserver named]# sudo systemctl restart named
[root@dnsserver named]# systemctl status named

* named.service - Berkeley internet Name Domain (DNS)
Loaded: loaded (/usr/lib/systemd/system/named.service; enabled; preset: disabled)
Active: active (running) since Thu 2024-06-06 05:42:08 UTC; 11s ago
Process: 14892 ExecStartPe=Pobin/bash -c if [ ! *SITSABLE_ZOUE_CHECKING" == "yes" ]; then /usr/sbin/named-checkconf -z "$NAMEDCONF"; else echo "Checkind"
Process: 14894 ExecStartPe=Pobin/bash -c if [ ! *SITSABLE_ZOUE_CHECKING" == "yes" ]; then /usr/sbin/named-checkconf -z "$NAMEDCONF"; else echo "Checkind"
Process: 14894 ExecStartPe=Pobin/bash -c if [ ! *SITSABLE_ZOUE_CHECKING" == "yes" ]; then /usr/sbin/named-checkconf -z "$NAMEDCONF"; else echo "Checkind"
Process: 14894 ExecStartPe=Pobin/bash -c if [ ! *SITSABLE_ZOUE_CHECKING" == "yes" ]; then /usr/sbin/named-checkconf -z "$NAMEDCONF"; else echo "Checkind"
Process: 14894 ExecStartPe=Pobin/bash -c if [ ! *SITSABLE_ZOUE_CHECKING" == "yes" ]; then /usr/sbin/named-checkconf -z "$NAMEDCONF"; else echo "Checkind"
Process: 14894 ExecStartPe=Pobin/bash -c if [ ! *SITSABLE_ZOUE_CHECKING" == "yes" ]; then /usr/sbin/named-checkconf -z "$NAMEDCONF"; else echo "Checkind"
Process: 14894 ExecStartPe=Pobin/bash -c if [ ! *SITSABLE_ZOUE_CHECKING" == "yes" ]; then /usr/sbin/named-checkconf -z "$NAMEDCONF"; else echo "Checkind"
Process: 14894 ExecStartPe=Pobin/bash -c if [ ! *SITSABLE_ZOUE_CHECKING" == "yes" ]; then /usr/sbin/named-checkconf -z "$NAMEDCONF"; else echo "Checkind"
Process: 14894 ExecStartPe=Pobin/bash -c if [ ! *SITSABLE_ZOUE_CHECKING" == "yes" ]; then /usr/sbin/named-checkconf -z "$NAMEDCONF"; else echo "Checkind"
Process: 14894 ExecStartPe=Pobin/bash -c if [ ! *SITSABLE_ZOUE_CHECKING" == "yes" ]; then /usr/sbin/named-checkconf -z "$NAMEDCONF"; else echo "Checkind"
Process: 14894 ExecStartPe=Pobin/bash -c if [ ! *SITSABLE_ZOUE_CHECKING" == "yes" ]
```

[root@dnsserver named]# nslookup ayushi.fun localhost

Server: localhost Address: ::1#53

Name: ayushi.fun

Address: 18.170.228.193

[root@dnsserver ~]# nslookup ayushi.fun

Server: 172.31.0.2 Address: 172.31.0.2#53

Non-authoritative answer:

Name: ayushi.fun

Address: 18.170.228.193

```
[root@dnsserver ~]# yum install nfs* -y
Updating Subscription Management repositories.
Unable to read consumer identity
 This system is not registered with an entitlement server. You can use subscription-manager to register.
 Last metadata expiration check: 0:28:21 ago on Thu 06 Jun 2024 05:25:14 AM UTC.
Dependencies resolved.
Package Architecture Version
                                                                                                                                                                                                                                                                         Repository
                                                                                                 x86_64
x86_64
x86_64
x86_64
                                                                                                                                                                     1:2.5.4-25.el9
1:2.5.4-25.el9
0.4.2-3.el9
1:2.5.4-25.el9
                                                                                                                                                                                                                                                                         rhel-9-baseos-rhui-rpms
rhel-9-appstream-rhui-rpms
rhel-9-baseos-rhui-rpms
rhel-9-appstream-rhui-rpms
                                                                                                                                                                                                                                                                                                                                                                                               463 k
195 k
54 k
160 k
 nfsv4 c...
Upgrading:
______mapper
                                                                                                  x86_64
x86_64
                                                                                                                                                                                                                                                                                                                                                                                               145 k
180 k
                                                                                                                                                                   9:1.02.197-2.el9
9:1.02.197-2.el9
 Installing dependencies:
                                                                                                                                                                                                                                                                        rhel-9-baseos-rhui-rpms
                                                                                                                                                                   0.8.4-6.el9
1.6.3-1.el9
4.33-5.el9
1.2.5.4-25.el9
1.3.3-8.el9.4
0.3.2-3.el9
1:4.06-6.el9
1:4.06-6.el9
1.2.6-7.el9
2.9.1-4.el9_3.5
                                                                                                   x86_64
x86_64
x86_64
x86_64
x86_64
x86_64
noarch
x86_64
x86_64
                                                                                                                                                                                                                                                                                                                                                                                               114 k
78 k
56 k
66 k
96 k
15 k
202 k
81 k
62 k
 Transaction Summary
Install 14 Packages
Upgrade 2 Packages
Total download size: 2.0 M
Downloading Packages:
(1/16): libev-4.33-5.el9.x86_64.rpm
(2/16): nfs-utils-coreos-2.5.4-25.el9.x86_64.rpm
(3/16): nfsv4-client-utils-2.5.4-25.el9.x86_64.rpm
                                                                                                                                                                                                                                                                                                                            884 kB/s | 56 kB 00:00
1.0 MB/s | 195 kB 00:00
846 kB/s | 160 kB 00:00
                                                                   × z root@ip-172-31-31-27:~
```

```
[root@dnsserver /]# ls
afs bin boot dev efi etc Exams home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
[root@dnsserver /]# semanage fcontext -a -t nfs_t /Exams
[root@dnsserver /]# ls -ldZ Exams/
drwxr-xr-x. 2 root root unconfined_u:object_r:default_t:s0 6 Jun 6 05:53 Exams/
[root@dnsserver /]# restorecon -vvRF /Exams
Relabeled /Exams from unconfined_u:object_r:default_t:s0 to system_u:object_r:nfs_t:s0
[root@dnsserver /]# ls -ldZ /Exams/
drwxr-xr-x. 2 root root system_u:object_r:nfs_t:s0 6 Jun 6 05:53 /Exams/
[root@dnsserver /]# vim /etc/exports
```

```
root@dnsserver:/
                            ×

    root@ip-172-31-31-27:~

                                                                   + |
                 * sync, no_root_squash, rw
/Exams
```

[root@dnsserver /]# systemctl restart nfs-server

```
root@dnsserver /]# systemctl enable --now nfs-server
reated symlink /etc/systemd/system/multi-user.target.wants/nfs-server.service → /usr/lib/systemd/system/nfs-server.service.
root@dnsserver /]# systemctl status nfs-server
rofs-server.service - NFS server and services
Loaded: loaded (/usr/lib/systemd/system/nfs-server.service; enabled; preset: disabled)
Drop-In: /run/systemd/symerator/nfs-server.service.d
Lorder-with-mounts.conf
Active: active (exited) since Thu 2024-06-06 05:57:31 UTC; 28s ago
Docs: man:rpc.nfsd(8)
man:exportfs(8)
Main PID: 15014 (code-exited, status=0/SUCCESS)
CPU: 21ms
Jun 06 05:57:31 dnsserver.ayushi.com systemd[1]: Starting NFS server and services...
Jun 06 05:57:31 dnsserver.ayushi.com systemd[1]: Finished NFS server and services.
```

```
[root@dnsserver /]# exportfs -v
             <world>(sync,wdelay,hide,no_subtree_check,sec=sys,rw,secure,no_root_squash,no_all_squash)
```

```
× noot@dnsserver:~
    root@examamchine:/
 127.0.0.1
                                           localhost localhost.localdomain localhost4 localhost4.localdomain4
                                           localhost localhost.localdomain localhost6 localhost6.localdomain6
 ::1
18.170.228.193
                                                                                           servera
 root@examamchine ~]# yum install nfs* mount*
pdating Subscription Management repositories.
Nable to read consumer identity
This system is not registered with an entitlement server. You can use subscription-manager to register.
Last metadata expiration check: 0:12:46 ago on Thu 06 Jun 2024 08:55:20 AM UTC. Package nfs-utils-1:2.5.4-25.e19.x86.64 is already installed. Package nfs-utils-coreos-1:2.5.4-25.e19.x86.64 is already installed. Package nfs-utils-coreos-1:2.5.4-25.e19.x86.64 is already installed. Package nfs4-acl-tools-0.4.2-3.e19.x86.64 is already installed. Package nfs-utils-1:2.5.4-25.e19.x86.64 is already installed. Package nfs-utils-coreos-1:2.5.4-25.e19.x86.64 is already installed. Package nfs-utils-coreos-1:2.5.4-25.e19.x86.64 is already installed. Package nfs-utils-coreos-1:2.5.4-25.e19.x86.64 is already installed. Package nfs-v4-client-utils-1:2.5.4-25.e19.x86_64 is already installed. Obependencies resolved. Nothing to do.

Complete! [root@examamchine -1# mkdir /paper.
 .omptete:
[root@examamchine ~]# mkdir /paper
[root@examamchine ~]# vim /etc/fstab

▼ root@examamchine:~

                                                           × noot@dnsserver:~
                                                                                                                               / x+s
/boot xfs
s,uid=0,gid=0
                                   700t

77 /boot/efi vfat defaults,uid=1

700t

700t
servera:/Exams
```

[root@examamchine ~]# systemctl daemon-reload

```
[root@exammachine ~]# mount -a
[root@exammachine ~]# df -h
                Size
                      Used Avail Use% Mounted on
Filesystem
devtmpfs
                4.0M
                         0
                             4.0M
                                    0% /dev
tmpfs
                377M
                         0
                             377M
                                    0% /dev/shm
                                    4% /run
tmpfs
                151M 5.0M
                             146M
/dev/xvda4
                9.2G
                      1.5G
                             7.7G
                                   17% /
                                   31% /boot
/dev/xvda3
                536M
                      161M
                             376M
                      7.0M
/dev/xvda2
                200M
                             193M
                                    4% /boot/efi
                                    0% /run/user/1000
tmpfs
                 76M
                              76M
                         0
servera:/Exams
                9.2G
                       1.6G
                             7.7G
                                   17% /paper
```

```
[root@dnsserver ~]# mkdir -p /var/www/main
[root@dnsserver ~]# mkdir -p /var/www/job
[root@dnsserver ~]# mkdir -p /var/www/aarambh
```

```
[root@dnsserver ~]# yum install wget unzip -y
Updating Subscription Management repositories.
Unable to read consumer identity
  This system is not registered with an entitlement server. You can use subscription-manager to register.
 Red Hat Enterprise Linux 9 for x86_64 - AppStream from RHUI (RPMs)
Red Hat Enterprise Linux 9 for x86_64 - BaseOS from RHUI (RPMs)
Red Hat Enterprise Linux 9 Client Configuration
Dependencies resolved.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Repository
                                                                                                                                                                                                                                                                                                                                                                                                                                                          rhel-9-baseos-rhui-rpms
rhel-9-appstream-rhui-rpms
                                                                                                                                                                                                                                                                                    6.0-56.el9
1.21.1-7.el9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               186 k
794 k
  Transaction Summary
 Install 2 Packages
Total download size: 980 k
Installed size: 3.5 M
Downloading Packages:
(1/2): unzip-6.0-56.el9.x86_64.rpm
(2/2): wget-1.21.1-7.el9.x86_64.rpm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3.2 MB/s | 186 kB 00:00
12 MB/s | 794 kB 00:00
Complete!
[root@dnsserver ~]# mget https://www.free-css.com/assets/files/free-css-templates/download/page296/healet.zip.
--2024-06-06.06:34:08-- https://www.free-css.com/assets/files/free-css-templates/download/page296/healet.zip.
Resolving www.free-css.com (www.free-css.com)... 217.160.0.242, 2001:3d8:1091:74000:286
Connecting to www.free-css.com (www.free-css.com)... 217.160.0.242, 2001:3d8:1091:7400:286
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://www.free-css.com/assets/files/free-css-templates/download/page296/healet.zip [following]
--2024-06-06 06:34:09-D- https://www.free-css.com/assets/files/free-css-templates/download/page296/healet.zip
Reussing existing connection to www.free-css.com/assets/files/free-css-templates/download/page296/healet.zip
HTTP request sent, awaiting response... 200 OK
Length: 2040237 (1.9M) [application/zip]
Saving to: 'healet.zip.'
    healet.zip.
                                                                                                                                                                             166%[========
                                                                                                                                                                                                                                                                                                                                                                                                                                    2024-06-06 06:34:09 (15.3 MB/s) - 'healet.zip.' saved [2040237/2040237]
    [root@dnsserver ~]# ls
[root@dnsserver ~]# Ls
healet.zip.
[root@dnsserver ~]# unzip healet.zip.
Archive: healet.zip.
creating: healet-html/
inflating: healet-html/about.html
inflating: healet-html/css/
inflating: healet-html/css/
inflating: healet-html/css/bootstrap.css
inflating: healet-html/css/spootstrap.css
inflating: healet-html/css/stot-amesome.min.css
inflating: healet-html/css/style.css
inflating: healet-html/css/style.css
inflating: healet-html/css/style.css.map
inflating: healet-html/css/style.css.
creating: healet-html/fonts/fontamesome-webfont.tff
inflating: healet-html/fonts/fontamesome-webfont.woff
inflating: healet-html/fonts/fontamesome-webfont.woff
inflating: healet-html/fonts/cotin.sports_rg.tf
creating: healet-html/images/about-imm.jpg
inflating: healet-html/images/about-imm.jpg
inflating: healet-html/images/b1.jpg
inflating: healet-html/images/b2.jpg
    root@dnsserver ~]# ls
eealet.zip.
root@dnsserver ~]# unzip healet.zip.
trchive: healet.zip.
creating: healet-html/
inflating: healet-html/blog.html
creating: healet-html/blog.html
creating: healet-html/css/bootstrap.css
inflating: healet-html/css/font-awesome.min.css
inflating: healet-html/css/font-awesome.min.css
inflating: healet-html/css/font-awesome.min.css
inflating: healet-html/css/style.css
inflating: healet-html/css/style.css
inflating: healet-html/css/style.css.map
inflating: healet-html/scs/style.css.map
inflating: healet-html/sons/fontawesome-webfont.tff
inflating: healet-html/fonts/fontawesome-webfont.woff
inflating: healet-html/fonts/fontawesome-webfont.woff
inflating: healet-html/inages/fontawesome-webfont.woff2
inflating: healet-html/images/bl.jpg
inflating: healet-html/images/bl.jpg
inflating: healet-html/images/bl.jpg
inflating: healet-html/images/bl.jpg
inflating: healet-html/images/lient.jpg
```

[root@dnsserver ~]# chown -R apache:apache /var/www/main

[root@dnsserver ~]# chown -R apache:apache /var/www/aarambh [root@dnsserver ~]# chown -R apache:apache /var/www/job

```
[root@dnsserver ~]# chmod ~R 755 /var/www/main
[root@dnsserver ~]# chmod ~R 755 /var/www/aarambh
[root@dnsserver ~]# chmod ~R 755 /var/www/job
[root@dnsserver ~]# sudo yum install httpd -y
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscription-manager to register.

Last metadata expiration check: 0:03:07 ago on Thu 06 Jun 2024 06:34:01 AM UTC.
Package httpd-2.4.57-8.e19.x86_64 is already installed.
Dependencies resolved.

Nothing to do.
Complete!
```

```
[root@exammachine ~]# systemctl restart httpd
[root@exammachine ~]# semanage fcontext -a -t httpd_sys_content_t/var/www/html
file_spec option is needed for add
[root@exammachine ~]# restorecon -vvRF /var/www/html
```

[root@exammachine ~]# restorecon -vvRF /var/www/html [root@exammachine ~]# semanage fcontext -a -t httpd_sys_content_t/var/www/aarambh file_spec option is needed for add

[root@exammachine ~]# restorecon -vvRF /var/www/aarambh Relabeled /var/www/aarambh from unconfined_u:object_r:httpd_sys_content_t:s0 to system_u:object_r:httpd_sys_content_t:s0

[root@exammachine ~]# semanage fcontext -a -t httpd_sys_content_t/var/www/job file_spec option is needed for add

[root@exammachine ~]# restorecon -vvRF /var/www/job
Relabeled /var/www/job from unconfined_u:object_r:httpd_sys_content_t:s0 to system_u:object_r:httpd_sys_content_t:s0